

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: April 8, 1996

Date Received: April 4, 1996

Project: Metro Self Monitor, PO #M52864

Date Samples Extracted: April 5, 1996

Date Extracts Analyzed: April 5, 1996

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR CHROMIUM, COPPER, NICKEL, AND ZINC
USING METHOD 6010**

**Samples Processed Using Method 3005A
Results Reported as mg/L (ppm)**

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M52864	0.68	0.36	0.30	<0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: April 8, 1996

Date Received: April 4, 1996

Project: Metro Self Monitor, PO #M52864

**QUALITY ASSURANCE RESULTS
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 67731 (Duplicate)

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>Relative Percent Difference</u>	<u>Acceptance Criteria</u>
Chromium	mg/L (ppm)	0.68	0.70	3	0-20
Copper	mg/L (ppm)	0.36	0.38	5	0-20
Nickel	mg/L (ppm)	0.30	0.32	6	0-20
Zinc	mg/L (ppm)	<0.05	<0.05	nm	0-20

Laboratory Code: 67731 (Matrix Spike)

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>Sample Result</u>	<u>% Recovery</u>		<u>Acceptance Criteria</u>	<u>Relative Percent Difference</u>
				<u>MS</u>	<u>MSD</u>		
Chromium	mg/L (ppm)	5	0.68	96	99	80-120	3
Copper	mg/L (ppm)	5	0.36	94	93	80-120	1
Nickel	mg/L (ppm)	10	0.30	93	96	80-120	3
Zinc	mg/L (ppm)	5	<0.05	92	94	80-120	2


Laboratory Code: Spike Blank

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>% Recovery</u>		<u>Acceptance Criteria</u>	<u>Relative Percent Difference</u>
			<u>MS</u>	<u>MSD</u>		
Chromium	mg/L (ppm)	5	102	103	80-120	1
Copper	mg/L (ppm)	5	104	105	80-120	1
Nickel	mg/L (ppm)	10	100	102	80-120	2
Zinc	mg/L (ppm)	5	96	98	80-120	2

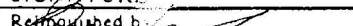
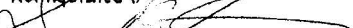
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

KNJ AI
4.4.96
3:00

Send Report To: Alaskan Copper Works Contact: GERALD Thompson
Company 638 Hanford St
Address Seattle WA 98134
City, State, Zip
Phone # (206) 382-8375 Date 8-8-86

SITE NO.	PROJECT NAME	PURCHASE ORDER #
7238	metro self monitor	M 52864
SAMPLERS (signature)	PROJECT LOCATION	
	3200 6th Ave S	
REMARKS	SAMPLE DISPOSAL INFORMATION	
	<input type="checkbox"/> Dispose after 30 days <input checked="" type="checkbox"/> Return Samples <input type="checkbox"/> Call for Instructions	

[illegible]

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: 	GERALD A. Thompson	A.C.W	4/4/96	2:12 PM
Received by: 	KURT JOHNSON	FBI	4/4/96	2:15 PM
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3012 16th Avenue West
Seattle, WA 98119-2029
FAX: (206) 283-5044

April 8, 1996

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

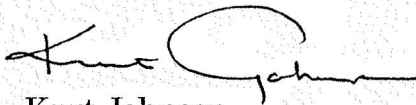
Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on April 4, 1996 from your Metro Self Monitor, PO #M52864 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kurt Johnson
Chemist

keh
Enclosures
FAX: 382-7335
ACU0408R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3012 16th Avenue West
Seattle, WA 98119-2029
FAX: (206) 283-5044

April 8, 1996

INVOICE #96ACU0408-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M52864: Results of testing requested by
Gerry Thompson, Project Manager for material submitted on April 4, 1996.

1 water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$65 per sample

\$ 65.00

Amount Due

\$ 65.00